

CLAIMS

What Is Claimed Is:

1. A resealable container and cap assembly, consisting essentially of:
a container having an upper portion and an outer surface, said container having a rim at said upper portion;
a cap having a circular base with an outer periphery and a cylindrical tubular skirt extending perpendicularly and outwardly around said outer periphery of said base, said skirt having an inner wall, said inner wall having at least one recess, said cap having opposing ends, said cap including a thumb tab for facilitating the opening and closing of said container and a hinge attached to said container, said thumb tab and said hinge being positioned on opposing ends of said cap and extending perpendicularly and outwardly from said skirt of said cap; and
in a closed position, said skirt of said cap overlies said container and said rim of said container being situated within said recess of said inner wall of said skirt of said cap that results in a leakproof container.
2. The assembly of claim 1 wherein said container further comprises a flange projecting radially outwardly from said outer surface of said container.
3. The assembly of claim 2 wherein said hinge is attached to said container flange.
4. The assembly of claim 2 wherein said skirt of said cap is designed to overlie and sit upon said container flange during said closed position.
5. The assembly of claim 1 wherein said cap and container assembly, in the closed position, forms an airtight seal.
6. The assembly of claim 5 wherein the moisture ingress is less than about 150 micrograms of water after three days.
7. The assembly of claim 1 wherein said cap and container are molded of plastic.
8. The assembly of claim 7 wherein said cap and container are integrally molded of said plastic to form a hinge therebetween.
9. The assembly of claim 1 wherein said cap is press-fit to said rim of said container during said closed position.
10. The assembly of claim 1 wherein said hinge has a recess, said recess forms two elements, one element being attached to said skirt of said cap and said second element being attached to said container; said recess functions as a bending point during the opening and closing of the container.

11. The assembly of claim 10 wherein said first element of said hinge is from about 0.03 inches to about 0.125 inches measured from a center line of the recess and an outside perimeter of said cap.
12. The assembly of claim 10 wherein said second element of said hinge is from about 0.1 inches to about 0.195 inches measured from a center line of the recess to an outside perimeter of said container.
13. The assembly of claim 1 wherein said thumb tab is from about 0.125 inches to about 0.325 inches measured from an outside perimeter of said cap to an end of said thumb tab.
14. The assembly of claim 1 wherein said container can be sealed and resealed by applying, in a singular motion, a frontal, downward pressure upon said thumb tab to obtain a leakproof seal.
15. The assembly of claim 14 wherein said sealing produces an air tight seal.
16. A method of manufacturing a resealable container and cap assembly, consisting essentially of the steps of:

providing a container and cap connected by a hinge, said container having an upper portion and an outer surface, said container having a rim at said upper portion; said cap having a circular base with an outer periphery and a cylindrical tubular skirt extending perpendicularly and outwardly around said outer periphery of said base, said skirt having an inner wall having at least one recess, said cap having opposing ends, said cap including a thumb tab, said tab and said hinge being positioned on opposing ends of said cap and extending perpendicularly and outwardly from said skirt of said cap; and

closing said container by applying, in a singular motion, a frontal, downward pressure upon said thumb tab to allow said skirt to overlie said container and said rim of said container to be situated within said recess of said inner wall of said skirt of said cap that results in a leakproof container.

17. The method of claim 6 wherein said container further comprises a flange projecting radially outwardly from said outer surface of said container.
18. The method of claim 6 wherein said closing step forms an air tight seal.
19. The method of claim 6 wherein said cap and container are molded of plastic.
20. A resealable container and cap assembly, consisting essentially of:
a container having an upper portion and an outer surface, and said container having a rim at said upper portion, said rim having one engagement surface;
a cap having a circular base with an outer periphery and a cylindrical tubular skirt

extending perpendicular and outwardly around said base, said skirt having an inner wall, said inner wall having a recess having at least two angular plane surfaces, said cap including a thumb tab for facilitating the opening and closing of said container and a hinge attached to said container and said hinge has a recess that functions as a bending point during opening and closing of the container, said thumb tab and said hinge being positioned on opposing ends of said cap and extending perpendicularly and outwardly from said skirt of said cap; and

in a closed position, said skirt of said cap overlies said container and said rim of said container within said recess of said inner wall of said skirt of said cap that results in a leakproof, air tight container.

21. The assembly of claim 20, wherein said recess of said hinge forms two elements, one element being attached to said skirt and said second element being attached to said container, said first element of said hinge is from about 0.03 inches to about 0.125 inches, measured from a center line of said recess and an outside perimeter of said cap; and

wherein said recess of said inner wall of said cap has angular plane surfaces of about 15 to about 35 degrees from a reference vertical.

22. The assembly of claim 20 wherein the assembly in a closed position is less than about 150 micrograms of water after three days.